

SAFETY DATA SHEET

SpeciSafe® Complete Secondary Packaging

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY/ UNDERTAKING

Product name: **SpeciSafe® Complete Secondary Packaging**

A super absorbent material applied to a rigid PVC/PE shell.

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2. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Description:

PVC/PE Shell - Polyvinyl Chloride and Polyethylene (Rigid PVC (Vinyl) sheets laminated to PE film)
Super Absorber – non-woven, tissue, and PE layers containing superabsorbent core

3. HAZARDS IDENTIFICATION

Not applicable

4. Emergency and First Aid Procedures (only necessary when handled without care)

Inhalation: If PVC/PE decomposes due to overheating or in contact with fire, remove affected persons to fresh air. In case of irritation of respiratory system or if feeling unwell after prolonged exposure, seek medical attention

Skin contact: If contact with hot (melt) product occurs, wash with plenty of water. Treat as for a thermal burn.
If contact with ambient temperature super absorber occurs, wash with soap and water. Wash off before super absorber dries.

Eye contact: After contact with hot (melt) product, immediately flush eyes with water for at least several minutes. Seek medical attention.

Ingestion: To avoid irritation, seek medical advice.

Advice for the doctor: After inhalation of decomposed products, treat symptoms (decontamination, vital functions). If necessary, take action against irritation by HCl of the mucous membranes.

5. FIRE FIGHTING MEASURES

PVC/PE films are partially flammable, depending on the PE share, but they are self-extinguishing outside the flame, caused by the predominant share of PVC.

Polymer solution-based adhesive is non-flammable. No restrictions on firefighting media. No special precautions.

Extinguishing media: PVC/PE - Water, dry extinguishing agent, CO₂
Super Absorber – extinguish with foam, carbon dioxide, dry powder, or water fog.

Extinguishing media not to be used: None known

Burning may release: Carbon Dioxide (CO₂) Water vapor (H₂O)
Hydrochloric gas (HCl) If the burning material cannot get enough air, release of carbon monoxide, soot and other gases and vapours is possible.

Advice for Firefighters

Special protective equipment for firefighters:

Self-contained breathing apparatus operated in positive pressure mode and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Further information: PVC-U does not burn without a constant fire source (PVC-U is self-extinguishing). Observe local regulations when contaminated water and burning waste are removed

6. SPILL OR LEAK PROCEDURES

Personal Precautions: Not applicable.

Environmental Precautions: PVC/PE – Not applicable
Adhesive – must not be allowed to reach water sources in an un-cleaned state.

Methods of Cleaning: Pick up by mechanical means for disposal or reuse.

7. HANDLING AND STORAGE

Storage: Store between 5°C and 25°C.
Seal completely to avoid contact with moisture in normal room conditions, without direct exposure to sunlight.
Avoid overheating the material, it decomposes to gaseous components (see also paragraph 5).
Thermal degradation does not occur at low temperatures but becomes faster at higher temperatures.

Decomposition: >150°C - long term contact
>200°C - short term contact (e.g. warm forming)

Take precautionary measures to avoid fire hazard.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Inhalation: Wear dustproof mask.

Eye: Wear glasses or safety goggles.

PVC/PE is recognised as safe. However, it may contain trace amounts of Vinyl chloride monomer VCM CAS-No. 75-01-4 EINECS-No. 2008310 MAK-Value: 2 ppm (5mg/m³)

Given the special precautions mentioned under 7. HANDLING, these traces present no toxic risk to the processing personnel.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Super absorber - Extruding and laminating Polyethylene film on the tape made of 2 layers polypropylene non-woven fabric with super absorbent polymer in between.

Odour: No odour under normal conditions. PVC/PE melt has a typical odour.

PH: Neutral (6-8)

Melting point of PVC/PE: Softening temperature 60 – 90°C
(EN ISO 306):
Glass transition temp.: approx. 80°C
Ignition temperature: see point 7

Boiling point, melting point explosion, oxidation, evaporation: N/A

Density: Super absorber: 0.30 - 0.45
PVC/PE (DIN EN ISO 1183-2): 1.25 – 1.45 g/cm³

Solubility PVC: Soluble in e.g. tetrahydrofuran and cyclohexanone
Partly soluble in different aromatic hydrocarbons
Not soluble in water, diluted acids and bases

Solubility PE: Not soluble in nearly all organic solvents

Molecular weight: Varies

10. STABILITY AND REACTIVITY

Chemical stability: Safe in normal temperature and pressure.

Condition and material to avoid: Avoid contact with water/moisture and degradation by over-heating.

Possible harmful substances during reaction: No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxic, acute inhalation toxic, chronic toxic, reaction to next generation, anti-cancer: N/A

PVC/PE is recognised as safe and biologically inert.

12. ECOLOGICAL INFORMATION

Water quality, ecological toxic, soil change, residual substance and dissolution remaining in animal's body.

No data for super absorber.

PVC/PE is not soluble in water (WGK 0, by supplier self-declaration); PVC/PE is harmless in contact with fishes and bacteria. In water treatment plant PVC can be separated mechanically.

The adhesive must not be allowed to reach water sources in an uncleaned state.

13. DISPOSAL CONSIDERATIONS

Regulation statement in Waste Management Law: General industrial waste

Disposing method: Household or incineration waste in accordance with local regulations or dispose of through licensed company.

Precaution for disposing: Observe environment related regulation.

14. TRANSPORT INFORMATION

Ship Safety Act, dangerous element shipping delivery and storage allocation and regulation: No data

Precaution in delivery: Prevent water and moisture absorption during delivery.

Other classification and regulation of foreign transport related regulation: No data

15. REGULATORY INFORMATION

None.

16. OTHER INFORMATION

None.

17. Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product